


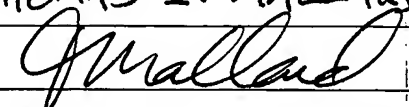
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PTO/SB/21 (08-00)  
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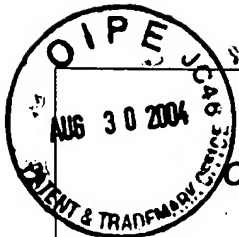
<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	10/613,535	
	Filing Date		
	First Named Inventor	MALLARD	
	Group Art Unit	3611	
	Examiner Name	WINNER	
Total Number of Pages in This Submission	28	Attorney Docket Number	

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input checked="" type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <b>ATTACHMENT A: <del>CLAIMS</del> REVISED CLAIMS</b>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual name	THOMAS I. MALLARD	
Signature		31296 PATENT TRADEMARK OFFICE
Date	August 15, 2004	

CERTIFICATE OF MAILING		
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: <b>26 AUG 2004</b>		
Typed or printed name	THOMAS I. MALLARD	
Signature		Date <b>26 AUG 2004</b>

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## Office Action Summary

**Application No.**

10/613,535

**Applicant(s)**

MALLARD, THOMAS IRVIN

**Examiner**

Tony H. Winner

**Art Unit**

3611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 July 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 July 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## Drawing Elements

- 1 Inner shell
  - 1a Hub body to inner shell fixing means - i.e. splines match cassette
- hub
  - 1b Stator to inner shell fixing means - splines match stator
  - 1c Sprocket clearance step
  - 1d Bearing step
  - 1e O-ring step
- 2 Stator - fluid driven
  - 2a Stator splines to match cassette freehub body
  - 2b Stator
- 3 Torque responsive drag varying assembly
  - 3a Spring
    - 3a<sub>1</sub> Stator spring seat
    - 3a<sub>2</sub> Vane spring seat
  - 3b Vane
  - 3c Dampening means
    - 3c<sub>1</sub> Vane support - dampening piston
    - 3c<sub>2</sub> Dampening port
  - 3d Vane stop
- 4 Outer shell - fluid driver
  - 4a Drive side shell half
  - 4b Wheel side shell half
  - 4c Disk impeller
- 5 Sealing means
  - 5a Drive side o-ring
  - 5b Wheel side o-ring
- 6 Power input means - sprocket or other means
  - 6a Input shaft
- 7 Bearings
  - 7a Drive side bearing
  - 7b Wheel side bearing
  - 7c Hub axle separation bearings
- 8 Filling means - plugs
- 9 Fluid chamber

- 10     Freewheeling means
  - 10a     Outer freewheeling body
  - 10b     Inner freewheeling body
  - 10c     Hollow fixing bolt
  - 10d     Wheel axle
  - 10e     Axle lock nut
  - 10f     Axle spacing washer
  - 10g     Inner and outer freewheeling body bearing cones
  - 10h     Pawl races, springs and pawls
  - 10i     Bearings
  - 10j     Bearing adjustment spacing washers
- 11     Transmission lock ring
- 12     Hub body
- 13     Rim support means
- 14     Rim
- 15     Tire
- 16     Rider power input means
  - 16a     Chain drive - crankset
  - 16b     Crank spider with chainring and front sprocket
  - 16c     Crankarms with pedals
- 17     Rotational power transfer means - chain
- 18     Chain idler
- 19     Output shaft
- 20     Bicycle with fluid automatic transmission
- 21     Bicycle frame
- 22     Stator surface
- 23     Stator spring
- 24     Outer shell – Fluid driver
- 25     Fluid driver - Impeller
- 26     Power input shaft
- 27     Fluid chamber
- 28     Output shaft